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MINUTES.

Stated Meeting, January 3, 1919.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

The decease was announced of

Charles Francis Himes, Ph.D., at Carlisle, Pa., on December 7, 1918, æt. 81.

Lewis S. Ware, at Paris, on December 20, 1918, æt. 67.

Mr. Leon Dominion, of New York, read a paper on "The Peoples of Central and Eastern Europe," which was discussed by Dr. Jastrow, Dr. Scott and Prof. Lingelbach.

The Judges of the Annual Election held this day between the hours of two and five in the afternoon reported that the following named members were elected according to the Laws, Regulations and Ordinances of the Society to be the Officers for the ensuing year.

President.

William B. Scott.

Vice-Presidents.

George Ellery Hale,
Arthur A. Noyes,
Hampton L. Carson.

Secretaries.

I. Minis Hays,
Arthur W. Goodspeed,
Harry F. Keller,
Bradley Moore Davis.

Curators.

Charles L. Doolittle,
William P. Wilson,
Leslie W. Miller.

Treasurer.

Henry La Barre Jayne.

Councillors.

(To serve for three years.)

Maurice Bloomfield,
John M. Clarke,
George H. Parker,
Arthur G. Webster.

Stated Meeting, February 2, 1919.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

The decease was announced of

Rossiter Worthington Raymond, Ph.D., LL.D., at New York, on December 31, 1918, æt. 78.

Theodore Roosevelt, LL.D., at Oyster Bay, on January 6, 1919, æt. 60.

Edward C. Pickering, LL.D., L.H.D., at Cambridge, on February 3, 1919, æt. 72.

The following papers were read:

"The League of Nations," by Russell Duane.

"Political Problems of Central and Southern Europe," by Charles D. Hazen of New York. (By title.)

"The Eastern Question," by Prof. Morris Jastrow, Jr.

"Organized Labor and Peace," by Prof. E. P. Cheyney.

Stated Meeting, March 7, 1919.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

The decease was announced of

George Carey Foster, F.R.S., D.Sc., at Herts, England, on February 9, 1919, æt. 83.

Hon. George Franklin Edmunds, at Pasadena, Calif., on February 27, 1919, æt. 91.

Charles L. Doolittle, Sc.D., LL.D., at Philadelphia, on March 3, 1919, æt. 76.

Mr. Langdon Warner, introduced by the President, read a paper

on "Siberia and the Czechs," which was discussed by Mr. Goodwin and President Scott.

Stated Meeting, April 4, 1919.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

The following papers were read:

"Present Tendencies in the National Development of Waterways and Water Traffic, with Reminiscences of the Service rendered by the American Philosophical Society in behalf of early Canal Construction in America," by Wilfred H. Schoff. (Introduced by Dr. W. P. Wilson.)

"What Shall be Done with the Railroads?" by Emory R. Johnson, Sc.D.

Stated General Meeting, April 24, 25, 26, 1919.

Thursday Afternoon, April 24, 1918.

Opening Session, 2.30 o'clock.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

Dr. Alfred G. Mayor, a lately-elected member, having subscribed the Laws, was admitted into the Society.

The decease was announced of

Sir William Crookes, Kt., O.M., LL.D., D.Sc., at London, on April 4, 1919, æt. 87.

Henry Morse Stephens, B.A., M.A., Litt.D., at San Francisco, on April 16, 1919, æt. 61.

George Ferdinand Becker, Ph.D., at Washington, on April —, 1919, æt. 72.

The following papers were read:

"The Cosmic Force, Radio-Action," by Monroe B. Snyder, Director of the Philadelphia Observatory.

"The Conservation of Natural Monuments," by John M. Clarke, Ph.D., Sc.D., LL.D., Director of Department of Science and State Museum, Albany, N. Y.

"Detection of Ocean Currents by their Alkalinity," by Alfred G. Mayor, M.E., Sc.D., Director of Department of Marine

Biology, Carnegie Institution of Washington, Princeton, N. J.

"Some Oceanographical Results of the Canadian Arctic Expedition, 1913–1918," by Vilhjalmur Stefansson, A.B., Commander of Canadian Arctic Expedition. (Introduced by Mr. Henry G. Bryant.) (By title.)

"Evolution and Mystery in the Discovery of America," by Edwin Swift Balch, A.B., of Philadelphia.

"Benjamin Franklin's Art as Applied to Books for Elementary Teaching," by Charles R. Lanman, Ph.D., LL.D., Prof. of Sanskrit, Harvard Universtiy. (By title.)

"The Energy Loss of Young Women during Light Household Muscular Activities," by Francis G. Benedict, Ph.D., Sc.D., Director of Nutrition Laboratory (Boston) of Carnegie Institution of Washington, and Alice Johnson.

"The Relative Contribution of the Staple Commodities to the National Food Consumption," by Raymond Pearl, Ph.D., Professor of Biometrics, School of Hygiene and Public Health, Johns Hopkins University.

"Hygiene and Sanitation as Improvised in the Zone of Operations during the Great War," by Bailey K. Ashford, M.D., Sc.D., Surgeon U. S. Army. (Introduced by Dr. W. W. Keen.) Discussed by Prof. Osborn.

"Bloodless Removal of Foreign Bodies from the Lungs through the Mouth by Bronchoscopy," by Chevalier Jackson, M.D., Attending Laryngologist, Jefferson Medical College, Philadelphia. (Introduced by Dr. W. W. Keen.) Discussed by Dr. Keen.

Friday, April 25, 1919.

Executive Session, 9.30 o'clock

Proceedings of the Officers and Council was submitted.

Morning Session, 10 o'clock.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

The following papers were presented:

"The New Discoveries of Extinct Animals in the West Indies and their Bearing on the Geological History of the Antilles,"

by William D. Matthew, A.M., Ph.D., Curator of American Museum of Natural History, N. Y. Discussed by President Scott.

"Characters and Restoration of the Sauropod Genus *Camarasaurus* Cope, from Type-Material in the Cope Collection of the American Museum of Natural History," by Henry Fairfield Osborn, Sc.D., LL.D., Research Professor of Zoölogy, Columbia University, and Charles C. Mook. Discussed by President Scott.

"Energy Conception of the Cause of Evolution," by Henry Fairfield Osborn, Sc.D., LL.D., Research Professor of Zoölogy, Columbia University.

"The Parasitic Aculeata, a Study in Evolution," by William M. Wheeler, Ph.D., Sc.D., Professor of Economic Entomology, Bussey Institution, Harvard University.

"Two Recent Entomological Problems—The Pink Bollworm and the European Corn Borer," by L. O. Howard, Ph.D., LL.D., Chief of Bureau of Entomology, U. S. Department of Agriculture, Washington.

HAMPTON L. CARSON, M.A., LL.D., Vice-President, in the Chair.

"Hydration and Growth," by D. T. MacDougal, Ph.D., LL.D., Director of the Department of Botanical Research, Carnegie Institution of Washington, Tucson, Arizona.

"Hydration of Colloids and Cell-Masses in Propionic Acid and its Amino-Compounds," by D. T. MacDougal, Ph.D., LL.D., Director of the Desert Laboratory, Tucson, Arizona, and H. A. Spoehr. (By title.)

"Sterility and Self-and-Cross-Incompatibility in Shepherd's Purse," by George H. Shull, Ph.D., Professor of Botany and and Genetics, Princeton University.

"The Basis of Sex Inheritance in *Sphærocarpos*," by Charles E. Allen, Ph.D., Professor of Botany, University of Wisconsin. (Introduced by Prof. Bradley M. Davis.)

"Hydrogen-ion Concentration of Nutrient Solutions in Relation to the Growth of Seed Plants," by Benjamin M. Duggar, A.M., Ph.D., Research Professor of Plant Physiology, Mis-

souri Botanical Garden, St. Louis. (Introduced by Prof. Bradley M. Davis.)

"The Relation of the Diet to Pellagra," by E. V. McCollum, Ph.D., Professor of Bio-Chemistry, Johns Hopkins University. (Introduced by Dr. Henry H. Donaldson.)

Afternoon Session, 2 o'clock.

GEORGE ELLERY HALE, Ph.D., Sc.D., LL.D., Vice-President, in the Chair.

The following papers were presented:

"The Eclipse Expedition from the Lick Observatory. Some Solar Eclipse Problems," by W. W. Campbell, Sc.D., LL.D., Director of the Lick Observatory, Mount Hamilton, Calif.

"The Expedition of the Mount Wilson Observatory to the Solar Eclipse of June 8, 1918," by J. A. Anderson, Ph.D., Mount Wilson Solar Observatory, Pasadena, Calif. (Introduced by Prof. John A. Miller.)

"The Lowell Observatory Eclipse Observations, June 8, 1918. Prominences and Coronal Arches," by Carl O. Lampland, A.M., Lowell Observatory, Flagstaff, Arizona. (Introduced by Prof. Eric Doolittle.)

"The Flash Spectrum," by Samuel Alfred Mitchell, Ph.D., Director McCormick Observatory, University of Virginia. (Introduced by Prof. John A. Miller.)

"Electric Photometry of the 1918 Eclipse," by Jacob Kunz, Ph.D., and Joel Stebbins, Ph.D., University of Illinois, Urbana, Ill. (Introduced by Prof. John A. Miller.)

"The Sproul Observatory Eclipse Expedition. The Form of the Coronal Streamers," by John A. Miller, A.M., Ph.D., Director of the Sproul Observatory, Swarthmore College, Pa.

"Results of Observations of the Eclipse by the Expedition from the Yerkes Observatory," by Edwin B. Frost, D.Sc., Professor of Astrophysics and Director of Yerkes Observatory, University of Chicago.

"Self-Luminous Night Haze," by E. E. Barnard, D.Sc., LL.D., Professor of Practical Astronomy, University of Chicago.

"Photometric Measurements of Stars," by Joel Stebbins, Ph.D., Professor of Astronomy, University of Illinois. (Introduced by Prof. Henry Norris Russel.) (By title.)

"Star Clusters and their Contribution to Knowledge of the Universe," by Harlow Shapley, Ph.D., Mt. Wilson Solar Observatory, Pasadena, Calif. (Introduced by Prof. George E. Hale.)

"Tatar Material in Old Russian," by J. Dyneley Prince, Ph.D., Professor of Slavonic Language, Columbia University.

Evening Session, 8.30 o'clock.

Arthur Gordon Webster, Sc.D., LL.D., Professor of Physics, Clark University, Worcester, spoke on the "Recent Applications of Physics in Warfare."

Saturday, April 26, 1919.

Executive Session, 9.30 o'clock.

WILLLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

Certain proposed amendments to the Laws and Rules of Administration and Order and Resolutions in reference to amendments to the Charter, recommended by the Officers and Council were adopted.

Pending nominations for membershp were read and the Society proceeded to an election. The tellers reported that the following nominees had been elected to membership:

Residents of the United States:

Robert Grant Aitken, Sc.D., Mount Hamilton, Cal.
Joseph Charles Arthur, Sc.D., Lafayette, Ind.
Edward W. Berry, Baltimore.
James Henry Breated, A.M., Ph.D., Chicago.
Ulric Dahlgren, M.S., Princton.
William Curtis Farabee, A.M., Ph.D., Philadelphia.
John Huston Finley, LL.D., Albany, N. Y.
Stephen Alfred Forbes, Ph.D., LL.D., Urbana, Ill.
Chevalier Jackson, M.D., Philadelphia.
Dayton C. Miller, A.M., D.Sc., Cleveland.
George D. Rosengarten, Ph.D., Philadelphia.

Albert Sauveur, S.B., Cambridge, Mass.
William Albert Setchell, A.M., Ph.D., Berkeley, Cal.
Julius O. Stieglitz, Ph.D., D.Sc., Chicago.
Ambrose Swasey, Sc.D., D.E., Cleveland.

Morning Session, 10 o'clock.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

Prof. James Henry Breasted, a newly elected member, subscribed the Laws and was admitted into the Society.

The following papers were read:

"Artificial Formations Resembling Lunar Craters," by Captain Herbert E. Ives, B.S., Ph.D., of Philadelphia. Discussed by Prof. Magie, Mr. Davis and Prof. Webster.

"The Meteorological Service of the Signal Corps in the War," by Robert A. Millikan, Ph.D., Sc.D., Professor of Physics, University of Chicago.

"Detection of Submarines," by Harvey Cornelius Hayes, Ph.D., Naval Experimental Station, New London. (Introduced by Prof. John A. Miller.) Discussed by Prof. Webster.

"Errors Induced in Bullets by Defects in their Manufacture," by Ernest W. Brown, M.A., Sc.D., Professor of Mathematics, Yale University. Discussed by Messrs. Akimoff, Webster, Brush and Brown.

"Sound and Flash Ranging," by Augustus Trowbridge, A.M., Ph.D., Professor of Physics, Princeton University.

"The Work of the Ballistic Institute of Clark University," by A. G. Webster, Ph.D., Sc.D., LL.D., Professor of Physics, Clark University, Worcester, Mass.

"Alternating-Current Planevector Potentiometer Measurements at Telephonic Frequencies," by A. E. Kennelly, A.M., Sc.D., Director Research Division, Electrical Engineering Department, Massachusetts Institute of Technology, Cambridge, and Edy Velander. Discussed by Prof. Webster.

"The Genesis of Petroleum as Shown by its Nitrogen Constituents," by Charles F. Mabery, Sc.D., Emeritus Professor of Chemistry, Case School of Applied Science, Cleveland. (By title.)

"Graphical Representations of Functions of the *n*th Degree," by Francis E. Nipher, Professor Emeritus of Physics, Washington University, St. Louis.

"Glimpses of the Near East During the War," by A. V. W. Jackson, L.H.D., LL.D., Professor of Indo-Iranian Languages, Columbia University. (By title.)

"The Empire of Amurru," by A. T. Clay, Ph.D., LL.D., Professor of Assyriology and Babylonian Literature, Yale University. (By title.)

"The Science of Stealing (Steyacastra) in Ancient India," by Maurice Bloomfield, Ph.D., LL.D., Professor of Sanskrit, Johns Hopkins University. (By title.)

"The Crib of Christ," by Paul Haupt, Ph.D., LL.D., Professor of Semitic Languages, Johns Hopkins University.

"The Atonement Idea Among the Ancient Semites," by Edward Chiera, Ph.D., Instructor in Assyriology, University of Pennsylvania. (Introduced by Prof. Morris Jastrow, Jr.)

Afternoon Session, 2 o'clock.

ARTHUR A. NOYES, Sc.D., LL.D., Vice-President, in the Chair.

Symposium on Chemical Warfare.

"Historical Introduction," by Col. Marston T. Bogert, Ph.D., LL.D., Chemical Warfare Service, U. S. A.

"Chemical Warfare and Research," by Col. George A. Burrell, Chemical Warfare Service, U. S. A. (Introduced by Col. Bogert.) (By title.)

"Chemical Warfare and Manufacturing Development," by Col. Frank M. Dorsey, Chemical Warfare Service, U. S. A. (Introduced by Mr. A. A. Blair.)

"Production of Chemical Warfare Munitions," by Col. William H. Walker, Chemical Warfare Service, U. S. A. (Introduced by Prof. H. F. Keller.)

"Means of Defense Against Chemical Warfare," by Col. Bradley Dewey, Chemical Warfare Service, U. S. A. (Introduced by Dr. Philip B. Hawk.) Discussed by Prof. Webster, Dr. Keen and Mr. Rosengarten.

Stated Meeting, May 2, 1919.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

The President appointed Prof. J. C. Arthur to prepare an obituary notice of the late George Francis Atkinson.

The decease was announced of

Lucien Adam, at Rennes, France, on November 29, 1918, æt. 86.

Mr. Frederick Ives read a paper on "The Simplification of Photography," which was discussed by Prof. Miller and Mr. Davis.

Stated Meeting, October 3, 1919.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

William Curtis Farabee, a newly elected member, subscribed the Laws and was admitted into the Society.

Letters accepting membership were received from

Robert Grant Aitken, Sc.D.,
Joseph Charles Arthur, Sc.D.,
Edward W. Berry,
James Henry Breasted, A.M., Ph.D.,
Ulric Dahlgren, M.S.,
William Curtis Farabee,
John Huston Finley, LL.D.,
Stephen Alfred Forbes, Ph.D., LL.D.,
Chevalier Jackson, M.D.,
Dayton C. Miller, A.M., Sc.D.,
George D. Rosengarten, Ph.D.,
Albert Sauveur, S.B.,
William Albert Setchell, A.M., Ph.D.,
Julius O. Stieglitz, Ph.D., Sc.D.,
Ambrose Swasey, Sc.D., D.E.

A letter was read from Mr. Thomas A. Edison, resigning membership.

The decease was announced of the following members:

Francis B. Gummere, A.B., Ph.D., LL.D., Litt.D., at Haverford on May 30, 1919, æt. 64.

William Gilson Farlow, A.M., M.D., at Cambridge, on June 3, 1919, æt. 74.

Sir Boverton Redwood, F.R.S., at London, on June 4, 1919, æt. 73.

Ira Franklin Mansfield, at Beaver, Pa., on June 7, 1919, æt. 77.

Rt. Hon. John William Strutt, Lord Rayleigh, O.M., LL.D., D.C.I., on July 1, 1919, æt. 77.

Gustavus Retzius, M.D., at Stockholm, on July 21, 1919, æt. 77.

Charles Conrad Abbott, M.D., at Bristol, Pa., on July 27, 1919, æt. 76.

Ernest Haeckel, Ph.D., at Jena, on August 8, 1919, æt. 85.

Andrew Carnegie, LL.D., at Lenox, Mass., on August 11, 1919, æt. 84.

The following papers were read:

"Trogloglanis Pattersoni, a New Blind Fish from San Antonio, Texas," by Carl Eigenmann, Ph.D.

"On the Luciopimelodinæ, a New Subfamily of the South American Siluridæ," by Charles S. Driver (communicated by Dr. Eigenmann).

Stated Meeting, November 7, 1919.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

Mr. George D. Rosengarten, a newly elected member, subscribed the Laws and was admitted into the Society.

The following papers were read:

"An International Treaty which Resulted in a Scientific League of Nations," by Hon. William C. Redfield.

"The Metric System of Weights and Measures," by Dr. Samuel W. Stratton.

"Child Maintenance at Public Expense," by Elisha Kent Kane.

"Tectonics of Laccolithic Mountains," by Charles Keyes (communicated by Prof. W. B. Scott).

Stated Meeting, December 5, 1919.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

The decease was announced of

Charles Henry Hitchcock, A.M., Ph.D., LL.D., at Honolulu, on November 6, 1919, æt. 83.

Julius F. Sachse, Litt.D., at Philadelphia, on November 4, 1919, æt. 76.

The following papers were read:

"The Deep Kansan Pondings in Pennsylvania and the Deposits Therein," by Prof. Edward H. Williams, Jr., which was discussed by President Scott.

"The Parallaxes of Fifty Stars, determined at Sproul Observatory," by John A. Miller (by title).

"The Experiences of a Sanitary Officer in the Army," by Dr. Alexander C. Abbott, which was discussed by Mr. Field, Dr. Jastrow, and President Scott.